

	Type	L #	Hits	Search Text
1	BRS	L1	49	morse with vibrat\$3

	Type	L #	Hits	Search Text
1	BRS	L1	43	vibrat\$3 with (text adj message)
2	BRS	L2	2	vibrat\$3 same (text adj message) same impair\$2
3	BRS	L3	34	vibrat\$3 adj message

	DBs	Time Stamp	Comments	Error Definition
1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 10:29		
2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/04 10:30		
3	USPAT; US-PGPUB	2004/05/04 10:35		

**DERWENT-ACC-NO: 2000-082262**

**DERWENT-WEEK: 200024**

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**TITLE: Signal conversion apparatus for portable terminal,  
telephone, used by deaf, blind people -  
converts audio  
signal to Morse or Braille code, as well as  
Morse code or  
Braille signal input from input key, to audio  
signal**

**PATENT-ASSIGNEE: NEC SHIZUOKA LTD[NIDE]**

**PRIORITY-DATA: 1998JP-0145107 (May 11, 1998)**

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>
<b>PAGES MAIN-IPC</b>		
<b>JP 11331407 A</b>	<b>November 30, 1999</b>	<b>N/A</b>
<b>007 H04M 011/00</b>		
<b>JP 3033734 B2</b>	<b>April 17, 2000</b>	<b>N/A</b>
<b>006 H04M 011/00</b>		

**APPLICATION-DATA:**

<b>PUB-NO</b>	<b>APPL-DESCRIPTOR</b>	<b>APPL-NO</b>
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**APPL-DATE**

<b>JP 11331407A</b>	<b>N/A</b>	<b>1998JP-0145107</b>
<b>May 11, 1998</b>		
<b>JP 3033734B2</b>	<b>N/A</b>	<b>1998JP-0145107</b>
<b>May 11, 1998</b>		
<b>JP 3033734B2</b>	<b>Previous Publ.</b>	<b>JP 11331407</b>
<b>N/A</b>		

**INT-CL (IPC): B41J003/32, G06F003/00 , G06F003/16 ,  
G09B021/00 ,  
H04M001/00 , H04M011/00**

**ABSTRACTED-PUB-NO: JP 11331407A**

**BASIC-ABSTRACT:**

**NOVELTY - A converter converts the audio signal to Morse or Braille code signal which is output by LED (107) or vibrator. The Morse or Braille code signal input from input key is converted to audio signal by another converter and is then transmitted.**

**USE - For portable terminal, telephone used by deaf and blind person.**

**ADVANTAGE - Since the audio signal is converted to signal which deaf and blind person can recognize, it is more effective for deaf and**

**blind persons to use  
telephones and portable terminals. DESCRIPTION OF  
DRAWING(S) - The figure  
shows the diagram of the signal conversion apparatus.  
(107) LED.**

**CHOSEN-DRAWING: Dwg.1/3**

**TITLE-TERMS: SIGNAL CONVERT APPARATUS PORTABLE  
TERMINAL TELEPHONE DEAF BLIND  
PEOPLE CONVERT AUDIO SIGNAL MORSE  
BRAILLE CODE WELL MORSE CODE  
BRAILLE SIGNAL INPUT INPUT KEY AUDIO  
SIGNAL**

**DERWENT-CLASS: P75 P85 T01 W01**

**EPI-CODES: T01-C; T01-C08; W01-C01; W01-C05;**

**SECONDARY-ACC-NO:**

**Non-CPI Secondary Accession Numbers: N2000-065525**